# Human Health and Diseases

## **CHAPTER-7**

- 1. World AIDS Day is celebrated?
- (a) 22 March
- (b) 1 December
- (c) 28th February
- (d) 31 December

(B)

- 2. Colostrum (new milk) has antibodies found in colostrum
- (a) IgA
- (b) IgE
- (c) IgM
- (d) IgG

(A)

- 3. Passive immunity is produced by injection of?
- (a) From antigen
- (b) From antibodies
- (c) By vaccination with weak bacteria
- (d) With antibiotics

(B)

- 4. . Due to which one of the following reasons does AIDS spread?
- (a) Through infected needles and injections
- (b) Due to mosquito bites
- (c) By taking care of a person suffering from AIDS
- (d) By shaking hands, hugging, sneezing and coughing

(A)

- 5. The scientist who discovered blood circulation is-
- (a) William Harvey

- (b) Robert Hooke
- (c) Schleiden and Schwann
- (d) Robert Brown

(A)

- 6. Acquired immunity is characterized by-
- (a) Specificity of antigen
- (b) Differentiation (into self and non-self-antigens)
- (c) Memory
- (d) all of the above

(D)

- 7. Which immune system will be generated in the baby through colostrum-
- (a) Self-defense
- (b) Active immunity
- (c) Passive immunity
- (d) Natural immunity

(C)

- 8. Example of non-infectious disease?
- (a) Common cold
- (c) Cancer
- (b) Ringworm
- (d) Typhoid

(C)

- 9. Which of the following is an example of an autoimmune disease?
- (a) AIDS
- (b) Rheumatic arthritis
- (c) Cancer
- (d) Elephant paw

(B)

- 10. The cause of shivering in malaria is-
- (a) Haemozoin
- (b) Hypnotoxin
- (c) Hematin
- (d) Merozoites

(A)

11. A person is suspected of suffering from

acquired immunodeficiency syndrome. Which scientific technique would you suggest to confirm this?

- (a) MRI
- (b) Ultrasound
- (c) Vidal
- (d) ELISA

(D)

- 12. By whom is cell mediated immunity implemented in the human body?
- (a) T-lymphocytes
- (b) B-lymphocytes
- (c) Platelets
- (d) Thrombocyte

(A)

- 13. A disease called ringworm occurs in humans-
- (a) By bacteria
- (b) By fungus
- (c) By virus
- (d) By nematode

(B)

- 14. Viruses that cause cancer are called-
- (a) Oncogenic virus
- (b) Proto oncogenic virus
- (c) Metastasis virus
- (d) Keto oncogenic virus

(A)

- 15. The fish that eats mosquito larvae to prevent malaria is-
- (a) Barbus
- (b) Was written
- (c) Gambusia
- (d) Exosuits

(C)

- 16. Which part of the body is most damaged by chronic use of alcohol?
- (a) Barbus
- (b) Was written

- (c) Gambusia
- (d) Exosuits

(D)

- 17. Allergy is caused by the release of which chemical from mast cells?
- (a) Serotonin
- (b) Merotonin
- (c) Terotonin
- (d) Lyretonin
- (A)
- 18. Helpful in destroying tumors-
- (a) Y-interferon
- (b) X-interferon
- (c) Z-interferon
- (d) B-Interferon

(A)

#### Very short answer questions -

1.Important lymphocytes participating in primary and secondary immune response are-

**Answer:** B and T lymphocytes

2. Where does the differentiation of B and T lymphocytes occur?

**Answer:** B - of lymph - in bone marrow. T-lymphocyte – in thymus gland

3. Which immunoglobulin is found in highest quantity in humans?

**Answer:** IgG (75%)

4. Give an example of allergy.

Answer: Asthma.

5. The vaccine given against snake bite is an example of which type of immunity?

**Answer:** post neutralizing antibody

6. Give an example of a vaccine prepared by recombinant DNA technology.

**Answer:** Hepatitis B vaccine

7. What is allergy? Which type of immunity is formed in maximum quantity during allergy?

**Answer:** An exaggerated response of the immune system to certain antigens present in the environment is called allergy. The factors which cause allergy are called allergens. Likepollen, dust etc. IgE type antibodies are formed against these.

8. Which chemicals are released from mast cells during allergy?

**Answer:** Histamine and Serotonin

9.What is called auto-immune disease? Give examples. –

Answer: Sometimes due to genetic and unknown reasons the body attacks its own cells. As a result, the body gets damaged, this is called autoimmune disease.

Ex. Rheumatoid arthritis

10. Give examples of primary and secondary lymphoid organs. –

**Answer:** Primary lymphoid organs - Bone marrow, thymus. Secondary lymphoid organs - Lymph nodes, tonsils, Peyer's patches of small intestine.

11. What is mucus associated lymphatic tissue (MALT)?

**Answer:** The lymphoid tissue located within the lining of the major tracts (respiratory, digestive and genitourinary tract) is called MALT. It constitutes 50% of the lymphoid tissue of the human body.

12. What is metastasis?

**Answer:** Malignant tumors spread to other parts of the body by blood circulation. After reaching there, new tumors are formed. This

quality is called metastasis.

13. Which diseases are Widal test and Elijah test done to confirm?

**Answer:** For typhoid and AIDS diseases respectively.

14. To prevent which disease a person should take T.A.B. should get vaccinated.

**Answer:** Typhoid disease.

**15.** Name the test based on the principle of antigen-antibody interaction.

**Answer:** ELISA-Test

16. What is that immunity called in which antibodies made to protect the body are given directly to the body?

**Answer:** Passive Immunity

17. Name the disease caused by a protozoa called Amoeba histolytic.

**Answer:** Amoebic dysentery

18. Differentiate between benign tumor and malignant tumor.

#### **Answer:**

Sudden tumors - These are common tumors which are less harmful. These are local and do not have the property of metastasis.

Malignant tumors – These are extremely harmful. They are not local and have the property of metastasis.

19. Write the name of the pathogen of ringworm-

**Answer:** Fungi Microsporum, Trichophyton and Epidermophyton

20. The most severe (severe) malaria is caused by which species of Plasmodium?

**Answer:** Plasmodium falciparum

21. Plasmodium has an infective stage in humans.

**Answer:** Sporozoite

### Long answer question:-

- 1. What is innate immunity? How many types of barriers are there in innate immunity? Write name.
- 2. Name the causative organism, symptoms and means of spread of amoebiasis.
- 3. Write the full name of the AIDS pathogen. How does it get infected? Explain the symptoms of AIDS in human body.
- 4. Describe cancer disease under the following headings.
  - (i) Write the causes of cancer.
  - (ii) Cancer identification and diagnosis.
  - (iii) Normal cells grow like cancer cells. Why doesn't it show?
- 5. (a) Write the name of the causative agent of tetanus disease. Write one symptom of this disease and its preventive measure.
  - (b) Give any four suggestions to prevent the ill effects of alcohol and drugs among teenagers.
- 6. (i) What are opioids drug?
  - (ii) Write the chemical name of smect.
  - (iii) From which plant is Sme obtained?
  - (iv)Draw the chemical structure of morphine
- 7. Describe typhoid disease under the following headings.
  - (i)Name of the pathogen

- (ii) Name of the test to confirm the disease
- (iii) Mode of infection
- (iv)Four main symptoms of the disease
- 8. Write the difference between the following:
  - (a) Liquid immunity and cell-mediated immunity
  - (b) Innate immunity and acquired immunity
  - (c) Antigen and antibody
- 9. (i) Write the scientific names of any two species of worms that cause filariasis.
  - (ii) How do they affect the body of the infected person?
- 10. Explain the life cycle of malaria parasite with the help of a labeled diagram.

Or

"The Plasmodium protozoa requires both mosquito and human hosts to sustain its life." Explain.